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INTERNATIONAL PRELIMINARY EXAMINATION POT POT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PWO-1008	FOR FURTHER ACTIO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)							
International application No. PCT/CA 03/00875	International filing date (day/m 16.06.2003	onthiyear) Priority date (day/monthiyear) 04.11.2002							
International Patent Classification (IPC) or both national classification and IPC H04Q7/22									
Applicant RESEARCH IN MOTION LIMITED									
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.									
2. This REPORT consists of a tot	2. This REPORT consists of a total of 8 sheets, including this cover sheet.								
been amended and are t	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a tot	al of sheets.								
I Basis of the opinion II Priority III Non-establishment IV Lack of unity of involved the citations and explain VI Certain documents VII Certain defects in t VIII Certain observation	of opinion with regard to novelty ention Int under Rule 66.2(a)(ii) with re- nations supporting such statement cited the international application as on the international application	n							
Date of submission of the demand		e of completion of this report							
14.04.2004	07.	02.2005							
Name and malling address of the internal preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5 Fax: +49 89 2399 - 4465	23656 epmu d	norized Officer nweitzer, J-C phone No. +49 89 2399-8963							

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International application No.

PCT/CA 03/00875

 Basis of the re 	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages					
	1-1	5	as originally filed				
	Cla	ims, Numbers					
	1-2	5	as originally filed				
	Dra	wings, Sheets					
	1/5-	5/5	as originally filed				
With regard to the language, all the elements marked above were available or furnished to this Autho language in which the international application was filed, unless otherwise indicated under this item.							
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:				
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).				
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	ernational application in written form.				
		filed together with th	ne international application in computer readable form.				
☐ furnished subsequently to this Authority in written form.							
		furnished subseque	ntly to this Authority in computer readable form.				
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.				
		The statement that t listing has been furn	the information recorded in computer readable form is identical to the written sequence iished.				
4.	The	amendments have r	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).									
		(Any replacement sheet contain report.)	ining s	uch amendn	ments must be referred to under item 1 and annexed to this						
6.	Add	dditional observations, if necessary:									
IV.	. Lac	k of unity of invention									
1.	In re	In response to the invitation to restrict or pay additional fees, the applicant has:									
		restricted the claims.									
	\boxtimes	paid additional fees.									
		paid additional fees under protest.									
neither restricted nor paid additional fees.											
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.									
3.	3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13 is										
		complied with.									
	☒	not complied with for the following reasons:									
	see	e separate sheet									
4.		nsequently, the following parts of the international application were the subject of international preliminary amination in establishing this report:									
	\boxtimes	all parts.									
		the parts relating to claims Nos									
٧.		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Stat	ement									
	Nov	relty (N)	Yes: No:	Claims Claims	3 - 6, 9 - 25 1, 2, 7, 8						
	Inve	entive step (IS)	Yes: No:	Claims Claims	12 - 25 1- 11						
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1- 25						
2.	Cita	tions and explanations									

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see separate sheet

Concerning section IV (unity of invention).

The international preliminary examining authority considers that the present application lacks unity and hence <u>does not comply with the requirements of unity of invention as set forth in Rule 13 PCT</u>.

Indeed, it is considered that <u>two separate inventions</u> are claimed in the present application, without there being any unifying inventive concept common to both, contrary to the requirements of Rule 13.1 PCT.

- Independent **claim 1** relates to a method for establishing a data connection using a <u>back-off timer</u>, wherein a connection request is issued upon expiry of the back-off timer.
- Independent **claim 12** relates to a method for re-establishing a data connection using a <u>service-check timer</u>, wherein a connection request is issued upon expiry of the service-check time and if the previously established data connection is determined to be lost.

The common concept linking together these separate inventions is thus merely the fact that a timer (back-off timer or service-check timer) is generally used to initiate/delay the transmission of a data connection request, which is arguably well-known in the art, cf. for instance the cited document **D1: WO-A-01/47142**, see page 4, lines 1 to 14. Since this common concept is not novel/inventive, the technical relationship between the subject-matter of claims 1 and 12 required by Rule 13.2 PCT is lacking.

Concerning section V.2 (reasoned statement under Article 35(2) PCT)

First invention (claims 1 to 11)

The cited **D1: WO-A-01/47142** already discloses a method (re-)establishing a data connection on a wireless data network, wherein, when it is determined that no data connection is established, i.e. a connection had been released, a back-off timer is initialized based on a previous number of connection requests (attempts) and a connection

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request is automatically transmitted upon expiry of said back-off timer, so as to establish a data connection, see D1, especially on pages 4 and 5, wherein it is mentioned that the value of the "reconnect timer" may e.g. be quadrupled after each failed connection attempt.

Citation D1 thus effectively discloses all the subject-matter of claim 1 which hence lacks novelty (Article 33(2) PCT).

The dependent claims 2 to 11 appear to add nothing of inventive significance to claim 1, as the additional features introduced by said dependent claims refer only to minor implementing details which are known or directly derivable from the cited prior art reference D1, e.g. the fact that the claimed method is used is CDMA networks, as per claim 2, or that the back-off timer is (additionally) based on a random seed, as per claims 7 and 8 (see in D1, page 13, lines 1 to 24) or fall within the general knowledge or technical competence of a person skilled in the art, e.g. the sending of "refusal or intercept" message or of "retry orders", as per claims 3 to 6.

Thus, dependent claims 2 to 11, either alone or in combination, appear to add nothing of inventive significance to claim 1 to which they are appended and, therefore, these claims cannot be considered to offer a basis for a novel and inventive claim.

Second invention (claims 12 to 25)

The prior art documents cited in the International search report do not seem to be prejudicial to the acceptability of independent (clarified, see below) claim 12 having regard to the novelty and inventive step (Articles 54 and 56 EPC) of its subject-matter, as none of the cited documents discloses or hints the provision of a "service check timer" as defined in said claim, which permits to automatically re-establish a previously lost data connection, upon expiry of said timer.

Actually, none of the prior art references is concerned with the problem of maintaining an "always-on" data connection and thus gives any incentive for the skilled person to arrive at the claimed automatic disconnect recovery as claimed in accordance with the second invention.

In particular, the cited D2: US 2002/082033 is only concerned with the release of a

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data connection after a predetermined wait period following the end of data transmission.

Claim 12 is therefore novel and considered to involve the required inventive step, Articles 33(2) and (3) PCT. The subject-matter of claim 12 is also industrially applicable.

The same applies to independent device claim 21, which is drafted in structural terms and corresponds essentially to a combination of present method claims 1 and 12 Claim 21, therefore, equally meets all the requirements of Article 33 PCT.

Dependent claims 13 to 20 and 22 to 25 relate to further implementing details of the method or device defined by the independent claims to which they refer and are thus equally novel, inventive and industrially applicable.

General remarks concerning clarity of the claims and the form and contents of the application:

For clarity reasons, it should made clear in claim 12 that the "service check timer" is actually started when a data connection is established, in accordance with the description given on page 9, line 26, this step (162 in Fig.4) of setting the timer being apparently an essential feature for the understanding and the correct performance of the invention

The independent claims are not drafted in the proper two-part "characterised" form recommended by Rule 6.3.(b),(I),(ii) PCT, having a preamble that correctly reflects the nearest prior art, presumably that represented by the above noted D1.

In order to meet the requirements of Rule 5.1.(a),(ii) PCT, the relevant prior art D1 should have been acknowledged by reference and briefly discussed in the introductory part of the description.

The claims do not include reference signs in parentheses where features shown in the drawings are referred to, Rule 6.2.(b) PCT.

Finally, on page 1, the reference to the priority document and the corresponding "incorporated by reference" statement should have been deleted, since the application

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should be self-contained (see PCT-Guidelines for Preliminary Examination, PG-II, 4.17).